

IN THE CLAIMS:

Please amend claims 1-12 as follows:

1. (Currently Amended) A redundancy packet transmission system, comprising: an active router and a standby router each of which has ~~two or more~~ at least first and second virtual routers logically realized therein, and an internal wiring conductor to connect between said active router and said standby router,

~~wherein each of said two or more virtual routers logically realized in said active router is configured to transmit packets with only a corresponding one of a plurality of internet service providers~~ said first virtual router of the active router is configured to transmit packets only with a first internet service provider and said second virtual router of the active router is configured to transmit packets only with a second internet service provider,

each of said active router and said standby router includes:

a network interface for transmitting packets ~~accommodating communication~~
channels;

a processor for processing ~~making a predetermined process on~~ the packets transferred ~~with~~ transmitted from and to the internet service providers;

a table memory for storing, ~~for each of the internet service providers,~~ respective routing information of said corresponding first internet service provider necessary for routing ~~processing of packets from said corresponding first internet service provider only via a respective one of said two or more first virtual router[[s]]~~ logically realized in the active or standby router and for storing routing information of said second internet service provider necessary for routing packets from said second internet service provider only via said second virtual router logically realized in the active or standby router; and

a program memory ~~in which~~ for storing in advance a program to be executed by said processor provided in the active or standby router ~~is stored therein in advance,~~

wherein when said active router operates normally, said ~~two or more~~ at least first and second virtual routers logically realized on said active router are activated and said ~~two or more~~ at least first and second virtual routers logically realized on said standby router are not activated,

said respective routing information of said ~~corresponding~~ first or second internet service provider stored in the table memory of the active router is

independently managed by only the ~~respective one of said two or more~~ first or second virtual router[[s]] logically realized in said active router, and said respective routing information of said ~~corresponding~~ first or second internet service provider stored in the table memory of the standby router is independently managed by only a ~~respective one of said two or more~~ first or second virtual router[[s]] logically realized in said standby router,

wherein when a ~~trouble occurs in~~ said active router has a trouble that occurs therein, said ~~system has~~ said standby router ~~take over routing processing of the active router processor provided in said active router by synchronizing per virtual router via~~ independently ~~synchronizing~~ synchronizes (1) said ~~respective~~ routing information of said ~~respective one of said two or more~~ first internet service provider stored in the ~~table memory managed by the first virtual router of the active router with routing information to be managed by the first virtual routers of said standby router, and~~ (2) said ~~respective~~ routing information of said ~~corresponding~~ second internet service provider stored in the ~~table memory managed by the second virtual router of the standby active router with routing information to be managed by the second virtual routers of said standby router, by:~~

~~said processor provided in said active router transmits~~ transmitting through the internal wiring conductor from said active router to said standby router a packet including a virtual router configuration flag and identification information of said ~~respective one of said two or more~~ first or second virtual router[[s]] logically realized in said active router,

~~receives~~ receiving a response signal relative to said identification information from said ~~respective one of said two or more~~ first or second virtual router[[s]] logically realized in said standby router, and

~~transmits and saves~~ transmitting and storing to said standby router said ~~respective~~ routing information of said ~~corresponding~~ first and second internet service providers from said active router to said standby router, wherein the transmitting and storing are done independently without mixing said routing information of said first and second internet service providers managed by said respective one of said two or more of the plurality of virtual router logically realized in said active router.

2. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein said virtual router configuration flag indicates whether to activate said

~~respective one of said two or more~~ first and second virtual routers logically realized in said standby router.

3. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein said standby router updates said ~~respective~~ routing information of said ~~corresponding~~ first and second internet service providers managed by said ~~respective one of said two or more~~ first and second virtual routers logically realized in said standby router on the basis of said ~~respective~~ routing information of said ~~corresponding~~ internet service providers sent from said active router via separated packets.
4. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein said active router periodically transmits said packet including said ~~identification~~ information of said ~~respective one of said two or more~~ first and second virtual routers logically realized in said active router to said standby router.
5. (Currently Amended) A redundancy packet transmission system according to claim 4, wherein said standby router has a counter, and
when said standby router does not receive said packet including said virtual router configuration flag and said identification information for a predetermined time, said standby router determines by using the counter that ~~said respective~~ at least one of said ~~two or more~~ first and second virtual routers logically realized in said active router has failed, and then starts to take over processing being handled by said ~~respective one of said two or more~~ first and second virtual routers logically realized in said active router.
6. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein said packet including said virtual router configuration flag and said identification information of said ~~respective one of said two or more~~ first and second virtual routers logically realized in said active router is a Virtual Router Redundancy Protocol (VRRP) packet.
7. (Currently Amended) A redundancy packet transmission system according to claim 6, wherein said identification information of said ~~respective one of said two or more~~ first

and second virtual routers logically realized in said active router is recorded in a Virtual Router identifier (VRID) field of said VRRP packet.

8. (Currently Amended) A redundancy packet transmission system according to claim 2, wherein said packet including said virtual router configuration flag and said identification information of said ~~respective one of said two or more~~ first and second virtual routers logically realized in said active router is a Virtual Router Redundancy Protocol (VRRP) packet.
9. (Currently Amended) A redundancy packet transmission system according to claim 8, wherein said virtual router configuration flag indicating whether to activate said ~~respective one of said two or more~~ first and second virtual routers logically realized in said standby router is stored in a type field of said VRRP packet.
10. (Currently Amended) A redundancy packet transmission system according to claim 2, further comprising a configuration console that has a display screen and command input means, wherein said virtual router configuration flag indicating whether to activate said ~~respective one of said two or more~~ first and second virtual routers logically realized in said standby router is determined on the basis of a command entered through said command input means.
11. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein the internal wiring conductor ~~to connect said active router and said standby router~~ is a communication channel that is connected to said network interface of each of the active and standby routers.
12. (Currently Amended) A redundancy packet transmission system according to claim 1, wherein each of said active router and said standby router further includes a switch, and
the internal wiring conductor ~~to connect said active router and said standby router~~ is a VRRP packet transfer dedicated line connecting between said switch of each of the active and standby routers.